

IN THE CLAIMS

Please amend the claims as follows:

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Claim 1 (Currently Amended): An optical disc recording apparatus comprising:
recording pulse generating means for setting a recording power at approximately the
leading end portion of a recording pulse in steps of a plurality of stages and for generating a
recording pulse of a pulse width corresponding to a length of a pit to be formed, said

recording pulse generating means includes:

a first pulse generation circuit configured to generate a first pulse,

a second pulse generation circuit configured to generate a second pulse, and

a third pulse generation circuit configured to generate a third pulse; wherein

said recording pulse generating means includes a pulse combining mechanism
configured to combine said first pulse, said second pulse, and said third pulse to form said
recording pulse; and

laser means for illuminating the laser light by the recording pulse supplied to form a
recording data string comprised of pits and lands defined between said lands on a recording
medium; wherein

the laser light emitting pulsed light by the recording pulse generated by said recording
pulse generating means is illuminated on a write-once optical disc as said recording medium
to effect recording.

Claim 2 (Currently Amended): The optical disc recording apparatus according to
claim 1 wherein:

~~said recording pulse generating means generates at least a first pulse~~ corresponds
~~corresponding to recording data,~~ said a second pulse is synthesized a predetermined time after
~~for synthesis to a leading end of said first pulse and~~ said a third pulse is synthesized another

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~~predetermined time before for synthesis to a leading end of said first pulse, said third pulse being of a pulse width smaller than said second pulse, said first to third pulses being synthesized to generate said recording pulse.~~

Claim 3 (Currently Amended): The optical disc recording apparatus according to claim 2 wherein:

said recording pulse generating means varies the pulse width and/or the pulse level of one or more of said first to third pulses ~~pules~~, depending on recording conditions, to generate said recording pulse.

Claim 4 (Currently Amended): The optical disc recording apparatus according to claim 2 wherein:

said recording pulse generating means includes pit/land length detection means for detecting the length of the pit/land to be formed and varies the pulse width and/or the pulse level of one or more of said first to third pulses ~~pules~~, depending on the combinations of the lengths of the pits/lands to be formed, based on a detection output by said pit/land length detection means, to generate a recording pulse.

Claim 5 (Currently Amended): The optical disc recording apparatus according to claim 2 wherein:

said recording pulse generating means varies the pulse width and/or the pulse level of one or more of said first to third pulses ~~pules~~, depending on conditions of an optical disc for recording, to generate the recording pulse of a pulse width.

Claim 6 (Currently Amended): The optical disc recording apparatus according to claim 4 wherein:

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said recording pulse generating means variably sets the pulse width of one or more of said first to third pulses responsive to at least one of the length of the pit formed directly previously and the length of the land formed directly previously.

Claim 7 (Currently Amended): The optical disc recording apparatus according to claim 4 wherein:

said recording pulse generating means varies the pulse width of said first pulse depending on the length of a land formed directly ahead of a pit formed.

Claim 8 (Currently Amended): The optical disc recording apparatus according to claim 7 wherein:

said recording pulse generating means varies the pulse width of said first pulse depending on the length of a pit formed.

Claim 9 (Currently Amended): The optical disc recording apparatus according to claim 7 wherein:

said recording pulse generating means varies the pulse width of said first pulse depending on the length of a land formed directly at back of a pit formed.

Claim 10 (Original): The optical disc recording apparatus according to claim 1 further comprising:

changeover means for switching the operation of said drive pulse generating means to preclude outputting of at least one of said first to third pulses generated by said recording

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pulse generating means, said recording pulse generating means performing switching control of said changeover means in association with a speed of forming a recording data string on said recording medium.

Claim 11 (Currently Amended): The optical disc recording apparatus according to claim 10 wherein:

said recording pulse generating means controls said changeover means so that, if said optical disc is rotated at a linear speed not higher than a speed four times a reference speed, said third pulse is not output.

Claim 12 (Currently Amended): A recording method for an optical disc comprising steps of:

generating a first pulse with a first pulse generation circuit, a second pulse with a second pulse generation circuit, and a third pulse with a third pulse generating circuit;

combining said first pulse, said second pulse, and said third pulse to form a recording pulse having a pulse width corresponding to a length of a pit formed, said recording pulse being so formed that a recording power at approximately the forward end thereof is stepped over plural stages; and

illuminating a laser light beam, excited in pulsed light by said recording pulse, on a write-once optical disc to effect recording.

Claim 13 (Currently Amended): The recording method for an optical disc according to claim 12 wherein:

said at least a first pulse corresponds ~~corresponding~~ to recording data, said a second pulse is synthesized a predetermined time after ~~for synthesis to~~ a leading end of said first

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pulse and said a third pulse is synthesized another predetermined time before ~~for synthesis to~~
a leading end of said first pulse, and said third pulse is generated with ~~being of~~ a pulse width
smaller than said second pulse, ~~are generated, said first to third pulses being synthesized to~~
~~generate said recording pulse.~~

Claim 14 (Currently Amended): The recording method for an optical disc according
to claim 13 wherein:

recording is performed as the pulse width and/or the pulse level of one or more of said
first to third pulses ~~pules~~ is controlled depending on a recording condition.

Claim 15 (Currently Amended): The recording method for an optical disc according
to claim 13 wherein:

recording is performed as the pulse width and/or the pulse level of one or more of said
first to third pulses ~~pules~~ is controlled depending on different combinations of the lengths of
the pits/lands formed.

Claim 16 (Currently Amended): The recording method for an optical disc according
to claim 13 wherein:

recording is performed as the pulse width and/or the pulse level of one or more of said
first to third pulses ~~pules~~ is varied depending on the condition of the optical disc to effect
recording.
